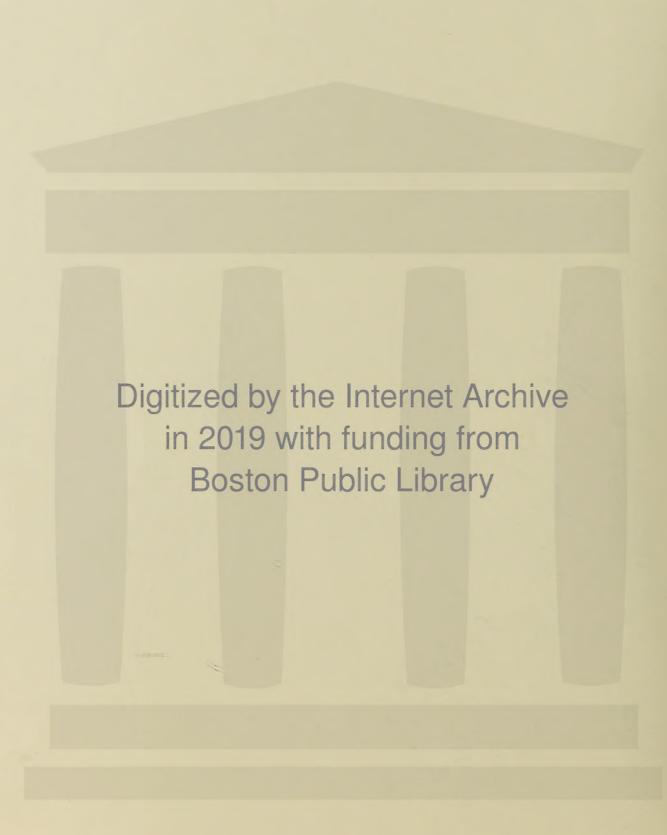
Box 27 Folder 2

CIRCA 1250-1260

assenden to ashere Record



grant of the same of the same



In Volume 8, No. 2, Summer Issue of Archaeology, a brief article on excavations in caves in Tamaulipas, northeastern Mexico, was published. Included in the findings from the stratified caves was a long sequence of domesticated plants. Since that article was written, more of the domesticated plant remains have been studied. Carbon 14 dates have been determined by Dr. Crane of the Randall Laboratories of the University of Michigan for all eight of the cultural phases. Both these studies have yielded rather surprising results, which I believe should be of interest to those who read the original report.

In the original article, the earliest culture I mentioned, on page 112, is here called the Infiernillo Phase. It has been dated by Carbon 14 as existing at 6,244 B.C. ±450 (M-498 from Level 6 of Cave Tm c 248), and 6,584 B.C. ±450 (M-500 from Level 12 of Cave Tm c 274).

Food remains show that these people obtained about 30 per cent of their food from hunting, 69 per cent from wild food plants (including a few small, possibly wild lima beans) and one per cent from gourd (seeds) Lageneria sic and squash, Cucurbita pepo. Thus these people were basically food-gatherers who had domesticated two plants which were of little importance in their subsistence. The second group, now called Ocampo, is dated as existing at 3,994 B.C.(± ), 3,274 B.C. (± ) and 2,634 B.C.

(± ), and the phase is estimated to have lasted from 2,300 to 4,000 B.C. In subsistence these people were plant collectors (80 per cent) who did some hunting (15 per cent) and a little (4 per cent) incipient agriculture or gardening of gourds, Lageneria sic , squash, Cucurbita pepo, and beans, Phaseous vulgaris. The third phase, called Flacco, dated as 1,990 B.C.,

In Tolonto in cover in Securitoria, northeosteria insidera, real printinia.

Includes in cover in Securitoria, northeosteria insidera, real printinia.

Includes in the similar train the stratified cover was a large tendinate of insideration.

Includes in the single first articles, and resident, north of the december.

I had out plant to the securitaria in the stratistic of the this time that the single of the this time in the stratistic in the time of the time.

In the security of the strates are stratistic to the strates of the single in the strategy of the strategy

To the original ships the contrast college to antitional to the same of the contrast of the co

moderated the test decided to the plants and the same of little laterial to that the test of the same of little laterial to that the test of the same of little laterial to that the test of the same of little laterial to the same of laterial la

(± ), and the please to estimited to have lacked from 2,300 to 4,000 3.0.

In imbellations these people were plant collectors (50 for each) who did now hidden of the cost) who did now hidden of the cost) and a little (4 for each) included agriculture of the cost posterior of the costs from the costs of the costs of

6

and estimated as lasting from 2,300 to 1,400 B.C., has a similar subsistence:

75 per cent foodgathering, 10 per cent hunting, and about 15 per cent
incipient agriculture of gourds, Lageneria sic , squash, Cucurbita

pepo, beans, phaseoulus vulgaris, and primitive pod-popeorn, Zea Mayo-Bat

Cave Race. The fourth cultural period, called Guerra, has a single date of
about 2,700 F.C., which does not fit with the stratigraphy and may very well
be contaminated. It is estimated that this culture existed between 1,400 to
1,800 B.C. This same period sees a major shift in subsistence as agriculture

(30 per cent) was practised with some hunting (10 per cent) and stilla great
deal of food-gathering (60 per cent). The major part of their agricultural
produce was Bat Cave corn but gourds, squash, and beans of the same varieties as
in the previous horizons continued. The only new domesticated plants seems to
have been cotton.

The fifth phase, Mesa de Guaje, from "a thick vegetable layer, with the first sherds, is dated as 1,484 B.C. (± ) and 1,694 B.C. (± ) and probably occurred from about 1,400 to 400 B.C. These people were true agriculturists (45 per cent) and used hybridized corn (Zea Mayr - a number of races) teocentli, gourds, ,Cucurbita moschata and pepo, phaseoulus funatus and vulgaris, cotton, and chili.

The phase above, called Palmillas, dated as 236 A.D. (± ) may have lasted to about 900 A.D. Agriculture represented over 50 -er cent of their subsistence and hunting, 5 per cent.

Besides all the previous plants, domesticated new races of corn and beans appear, as well as squash, Cucurbita mixta, and tobacco,

And the contract of the second state of the se

Anne hade, the secret ellered proved, exhibit descript had a shipted date of and a shipted date of the same street and secret ellered proved, and a descript had any very well about street street street and also exactly that any very well to contaminated. It is verificated that the entition entitled date in 1,400 to 1,400 to 1,400 in 1

the first phase, then do heigh, from "a title vegetable larger, with the face tracking to do he to 1,446 8.0. (2 ) and 1,496 8.0. (2 ) and 2,496 8

programming throughout the and only a linear one

The place about 900 A.S. Agriculture configuration of the first of the

Append as well as mericon plants, desembleshed new rooms of the method new and the manual appends as well as

(Meotina ruatucana) 1 magha manufi

dated 1436AD

The final two cultures, San Lorenze, 400 or 1,100 A.D. to 1,450 A.D., and San Antonio, 1,450 to 1,750 A.D., add few new domesticated plants (possibly only new races of old species), and have about the same subsistence pattern.

amountles o mencie

Quite frankly, the dates of the appearance of these domesticated plants seem early but all but one are so consistent with the stratigraphy and with the cross-dating that they seem reasonable. Perhaps there was some sort of contamination of the carbon but, if so, it has not been determined. If these dates are correct, then domestication of plants in the New World, surprisingly enough, seems to have been equal in age to that of the Old World, though true agriculture and "civilizations" was much later. Certainly further investigation of this phenomena is warranted.

" a (southful extremit)

and the wind of the court of th

delta delegation of the data of the september of the strongerate and sind

to seem such but 12 bet all and are a relative this the strongerate and sind

the server being the thing are respondible. Particle this was some over all

the server being the such as the thing are respondible. In this think the limit the server of

the server being the such as a server been are larger to the think of the server

there are server than as the server been are larger to the think of the server being the server.

The server being the server are the server been are the think of the server begins and the server because the server between the server

assendum to asticle the #35

5

